

General Specifications

Physical (no case or accessories):

Height	6.30 in.	160 mm
Width	9.45 in.	240 mm
Depth	2.36 in.	60 mm
Weight	3 lbs.	1.3 kg

Physical (case and accessories)

Height	7.80 in.	198 mm
Width	11.0 in.	279 mm
Depth	6.5 in.	165 mm
Weight	6 lbs.	2.6 kg

Environmental

Operating Temp	0° C to 50° C	32° F to 122° F
Storage Temp	-20° C to 60° C	-4° F to 140° F
Humidity	95% max. relative, non-condensing	
Vibration	IEC 68-2-6	
Shock (Bump)	IEC 68-2-29	
Drop	IEC 68-2-27	
Moisture Rating	IP 54	

Power

Internal	Rechargeable, 7.2V nickel metal hydride battery pack	
External	12 VAC or VDC, 1250mA power supply	
Operating Time	>6 hours without backlight	
Display	320 X 240 dot-matrix liquid crystal display with CCFL backlighting	

Time Domain Reflectometer (loaded and non-loaded cable)

Horizontal Resolution

<2000 ft	<0.25 ft at 99.0% VOP, <0.07 ft at 30.0% <0.07 m at 99.0% VOP, <0.02 m at 30.0%
>2000 ft	1 foot at any VOP 0.1 meter at any VOP

Vertical Resolution	14 bits with 137 dots displayed
Vertical Sensitivity	>65dB
Output Signal	2ns, 25ns, 100ns, 500ns, 1.5ms, 4.4ms and 330 ms
Output Balance	Variable from 80□ to 120□
Distance Accuracy	±0.5 ft plus ±0.01% of reading ±0.15 m plus ±0.01% of reading

Maximum Range

Live Waveform	63,700 ft (19,400 m) at 99.0% VOP 38,600 ft (11,700 m) at 60.0% VOP <i>Range varies with VOP. Maximum testable cable length varies with pulse width and cable type.</i>
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Input Protection

400 VAC or VDC up to 60 Hertz

Velocity of Propagation Two user-selectable display formats.

VOP (%) ranging from 30.0% to 99.0%	
Loaded Cable	VOP (%) ranging from 0.8% to 20.0%
V/2 ranging from 45.0 to 148.4m/ms or 147.5 to 486.9 ft/ms	
Loaded Cable	V/2 ranging from 1.2 to 30.0 m/ms or 3.9 to 98.4 ft/ms

Waveform Storage

Standard	8 SUPER-STORE waveforms at 6144 samples each
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Optional	32 SUPER-STORE waveforms at 6144 samples each
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Software Noise Filters

Standard	8x, 50/60 Hz
Optional	4x, 8x, 16x, 32x, 64x, 128x, 50/60Hz

Resistance Fault Locator

Location Range	0 to 100 kft
Resistance Fault Range	0 to 50M□
Accuracy	
3-Wire Test	±0.25% of DTS ±0.4ohms
4-Wire Test	±0.25% of DTS ±0.25ohms
Kupfmuller Test	±1.0% of DTS ±1 ohm

Noise/Balance Measurements

Longitudinal Balance	40 to 62 dB
Frequency	1004 Hz
Resolution	1 dB
Accuracy	±2 dB
Noise Metallic	0 to 50 dBmC
Transverse Noise	-90 to -40 dBmP
Resolution	1 dB
Accuracy	±2 dB
Power Influence	40 to 100 dBmC
Longitudinal Noise	-50 to 10 dBmP
Resolution	1 dB
Accuracy	±2 dB

Multi-Meter

DC Voltage	0 to 400V
Resolution	0.1V
Accuracy	1% ±0.1V
AC Voltage	0 to 400V
Resolution	0.1V
Accuracy	1% ±0.1V
Foreign Battery	2 to 400V
Resolution	0.1V
Accuracy	1% ±0.1V

Resistance

0 to 2 k□	
Resolution	0.1□
Accuracy	0.2%±0.2□
2k□ to 10k□	
Resolution	1□
Accuracy	0.2%±1□

Insulation Resistance

0.00M□ to 100M□	
Resolution	0.01M□
Accuracy	±1%
Loop Current	0 to 120mA
Resolution	0.1mA
Accuracy	5% ±0.1mA

Standard Accessories

Operator's Manual, 12VDC charger, nylon carry/accessory bag, shoulder strap, 2 sets telephone connection leads plus ground lead, pair shorting strap, and VOP card.

Options

Extended waveform storage, 32 waveforms, and extended TDR noise filters.



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